



## Test report no.: K-K-25-11740

Number of pages:	8
Order No.:	K-K-25-11740
Contracting authority:	ALPHA CZECH s.r.o. Mr. Pyšný U plynárny 348/83 CZ 10100 Prague 10 - Michle
Laboratory – location testing:	GRADUS, a.s.
Address:	Husova 121 CZ 281 26 Týnec nad Labem
Protocol prepared by:	Ing. Marek Schiller
Subject of testing:	Your order e-mail dated 23.05.25 based on our price quote no. 4123 dated 13.05.25 Part*: Abamal anti-mold 4 pcs
Test name:	Determination of resistance under UV lamps
Test according to:	AZP-13 (ČSN EN ISO 4892-3)
Test name:	Determination of mirror gloss of coatings
Test according to:	ČSN ISO 2813
Test name:	Colorimetric determination of color differences
Test according to:	AZP-11 (ČSN EN ISO/CIE 11664-4)
Base material*:	fiber cement board
Coating characteristics*:	roller coating
Sampling method:	samples taken by the client, testing concerns samples supplied by the customer, samples were tested as received
Sample preparation:	stored under laboratory conditions
Coating thickness (DFT):	according to ČSN EN ISO 2808 – method 4B – determination by depth measurement – type 2 dial gauge (non-accredited test procedure)
Testing equipment:	QUV/SPRAY/RP chamber – Q-lab corporation, USA,
Test lamps used:	fluorescent UV lamps type 1A – UVA 340
Test cycle:	method A test cycle 1 8 hours of exposure at a temperature of $(60 \pm 3) ^\circ\text{C}$ , radiation intensity



0.76 Wm<sup>-2</sup> x nm<sup>-1</sup>

4 hours of condensation without exposure at a temperature of (50 ±  
BYK micro tri gloss gloss meter, Byk – Gardner GmbH Test  
BYK-mac i23 colorimeter, Byk Gardner GmbH Measurement  
D65/10° illumination, without included gloss

3) °C Test equipment:  
equipment:  
conditions:

Date of sample collection:  
Test date:

May 23  
09.06.25 – 31.08.25

### Test results

#### Determination of dry film thickness

Sample of sample	Sample Sample	ø DFT	Minimum value	Maximum value	Expanded uncertainty U
11740-1	-	<b>776</b>	750	790	-
11740-2	-	<b>778</b>	770	785	-
11740-3	-	<b>782</b>	770	810	-
11740-4	-	<b>787</b>	770	805	-

#### Measured thickness values for individual samples

11740-1	790	750	770	790	780	780	770	775	780	775
11740-2	780	785	780	775	775	780	785	775	770	775
11740-3	810	790	775	780	780	775	780	770	785	775
11740-4	805	795	790	780	775	785	790	770	790	790

#### Coating gloss measurement

Sample	Gloss before exposure [GU]		
	20	60	85
11740-1	1.3	2.1	0.2
11740-2	1.3	2.1	0.3
11740-3	1.3	2.1	0.3
11740-4	1.3	2.1	0.2

Sample	Gloss after 500 h exposure according to ČSN EN ISO 4892-3 [GU]		
	20	60	85
11740-3	1.3	2.1	0.3
11740-4	1.3	2.1	0.2

Sample	Gloss after 1000 h exposure according to ČSN EN ISO 4892-3 [GU]		
	20	60	85
11740-3	1.3	2.1	0.3
11740-4	1.3	2.1	0.2



Sample	Gloss after 1500 hours of exposure according to ČSN EN ISO 4892-3 [GU]		
	20	60	85
11740-3	1.3	2.0	0.3
11740-4	1.3	2.1	0.2

Sample	Gloss after 2000 hours of exposure according to ČSN EN ISO 4892-3 [GU]		
	20	60°	85°
11740-3	1.3	2.0	0.3
11740-4	1.3	2.0	0.2

#### Color coordinate measurement

Sample	Color coordinates			Color Deviation
	L	a	b	$\Delta E$
11740	96.43	-0.51	2.38	-

Sample	Deviations in color coordinates after 500 hours of exposure according to ČSN EN ISO 4892-3			Color deviation
	$\Delta L$	$\Delta a$	$\Delta b$	$\Delta E$
11740-3	-0.45	0.05	-0.23	<b>0.51</b>
11740-4	-0.49	0.04	-0.18	<b>0.53</b>

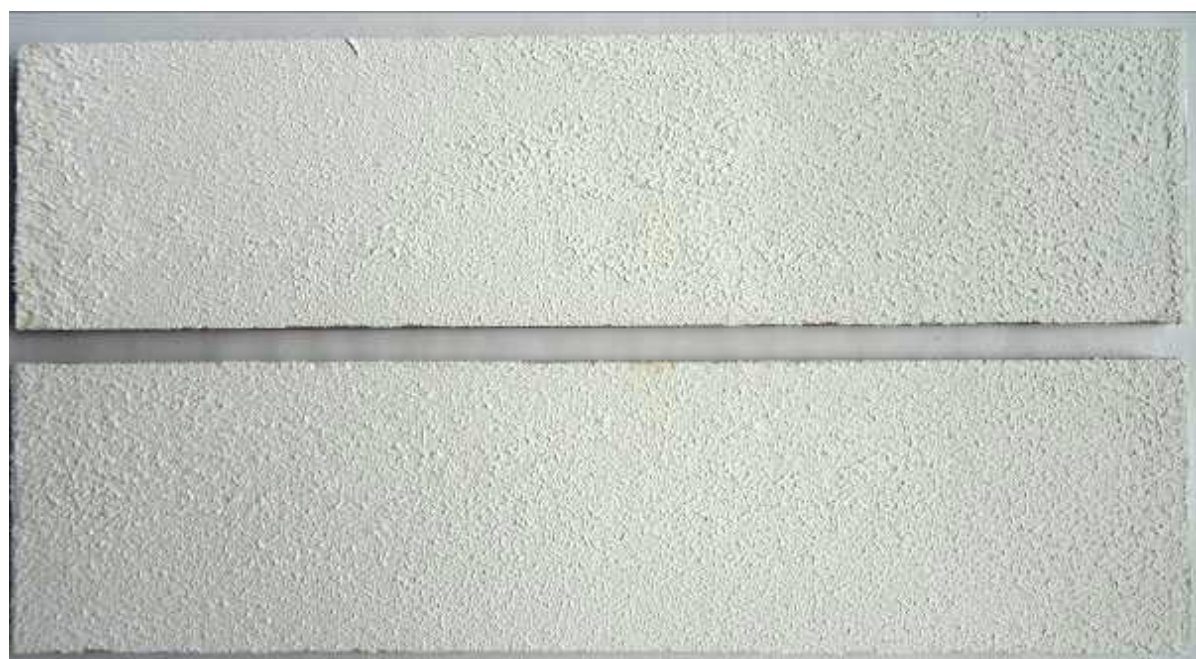
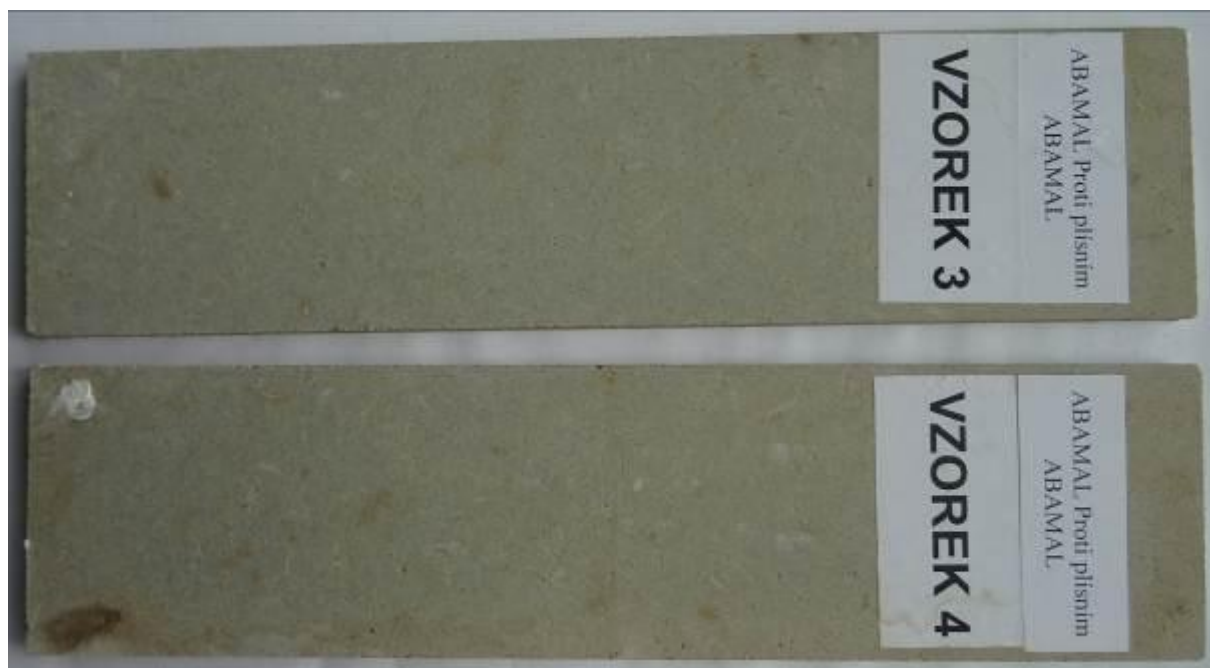
Sample	Deviations in color coordinates after 1000 hours of exposure according to ČSN EN ISO 4892-3			Color deviation
	$\Delta L$	$\Delta a$	$\Delta b$	$\Delta E$
11740-3	-0.47	0.03	-0.28	<b>0.55</b>
11740-4	-0.56	0.03	-0.28	<b>0.63</b>

Sample	Deviations in color coordinates after 1500 hours of exposure according to ČSN EN ISO 4892-3			Color deviation
	$\Delta L$	$\Delta a$	$\Delta b$	$\Delta E$
11740-3	-0.75	0.03	-0.46	<b>0.87</b>
11740-4	-0.70	0.03	-0.45	<b>0.84</b>

Sample	Deviations in color coordinates after 2000 hours of exposure according to ČSN EN ISO 4892-3			Color deviation
	$\Delta L$	$\Delta a$	$\Delta b$	$\Delta E$
11740-3	-0.88	0.03	-0.52	<b>1.02</b>
11740-4	-0.97	0.04	-0.55	<b>1.11</b>

Photos of samples No. 3, 4

500 hours of exposure under UV lamps







**Photo of samples no. 3, 4**

**1000 hours of exposure under UV lamps**



**Photos of samples No. 3, 4**

**exposure for 1500 hours under UV lamps**



Photo of samples no. 3, 4

2000 hours of exposure under UV lamps



**Names of tests:**

**Tear test – Adhesion test  
Surface treatments of building structures for  
the substrate**

Test according to:

ČSN 73 2577

Testing equipment:  
conditions:  
%

AMB 10 pull-off device, Roklan electronic, Czech Republic Test  
The test was performed in a laboratory at  $(23 \pm 2)^{\circ}\text{C}$  and  $(50 \pm 5)$

Reference test:

humidity

Samples after exposure:

samples in the delivered state were conditioned  
conditioned for more than 24 hours under laboratory conditions  
Samples after testing according to ČSN EN ISO 4892-3 exposure  
2000 hours, stored in laboratory conditions for 168 hours prior to  
tear test

Test specimens:

aluminum test specimens with a diameter of 50 mm

Adhesive used:

Bison two-component epoxy adhesive Adhesive drying

time:

24 hours at laboratory temperature

Cutting of test

with a core drill with a diameter of 56 mm

Unusual phenomena  
and anomalies: Test  
results

No phenomena or anomalies occurred during the test

Tear test – reference test samples without exposure, only conditioned  
under laboratory conditions.  
Samples 11740-1, 11740-2

Tear strength [MPa]	1.	2.	3.	4.	5.	6.	Average
	0.49	0.52	0.48	0.55	0.56	0.56	<b>0.53 ± 0.04</b>
Character of the quarry	A	A	A	A	A	A	-

Tear test – test after 2000 hours of exposure Test according to ČSN EN ISO 4892-3 Samples 11740-3,  
11740-4

Tear strength [MPa]	1.	2.	3.	4.	5.	6.	Average
	0.44	0.45	0.41	0.44	0.55	0.48	<b>0.46 ± 0.05</b>
Refractive index	A	A	A	A	A	A	-

**Photo of parts no. 1, 2 after tear test - without exposure**





Photo of parts no. 3, 4 after tear test – exposure 2000 h under UV lamps



\*Information provided by the customer.

Date of report issue:  
Approved by:

03.11.25  
Ing. Martin Kaška, Ph.D., Head of Laboratory



The results apply only to the items tested.

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